

Spinning Drop IFT Measurement

SD-ES10



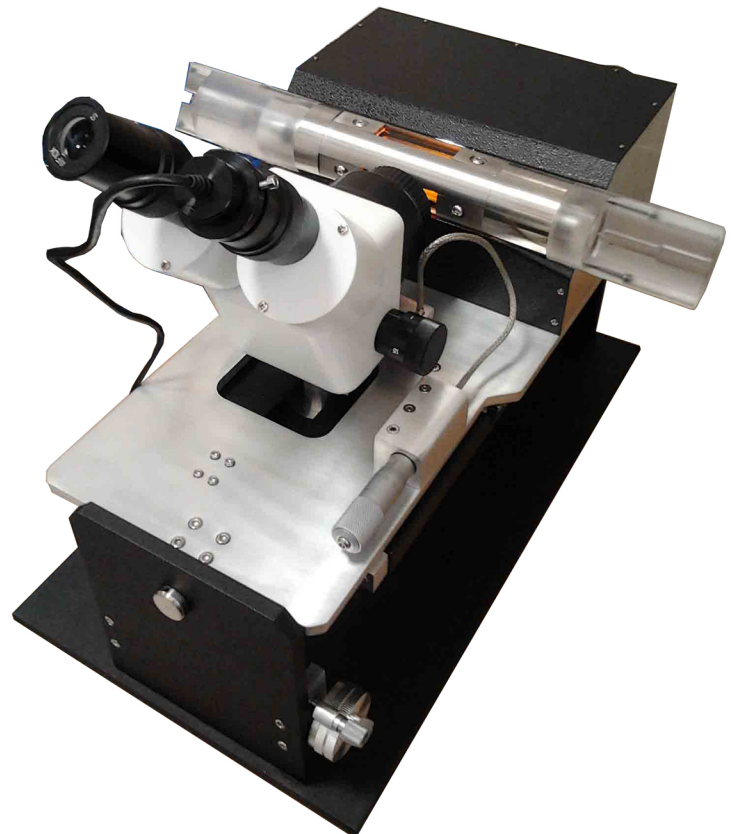
Description:

The Interfacial Tension (IFT), serving as an indicator of energy at the interface of two immiscible fluids, plays a crucial role in Enhanced Oil Recovery (EOR) processes. EOR agents, such as surfactants, alkaline substances, and polymers, are employed to reduce the IFT between oil and water, thereby diminishing capillary forces and enhancing the recovery of residual oil.


The Spinning Drop apparatus (SD-ES10) has been specifically designed for the measurement of ultralow interfacial tension, reaching as low as 10^{-5} mN/m. This capability to assess ultra-low interfacial tensions, achieved through the use of specialized chemicals, contributes to elevated oil recovery by reducing IFT and altering wettability. The obtained results assist operators in the development and optimization of emulsions and microemulsions.


Technical Specification:

- Camera positioner
- IFT range: 10^{-5} -5 mN/m
- Working pressure: Ambient
- Working temperature: Ambient
- Maximum cell speed: 12000 rpm
- Capillary diameter: 0.105" (2.6 mm)
- Microscope
- Digital camera
- Magnification: 20×
- Backlight (for improved contrast and sharpness)
- Camera positioner



Shiraz Technology Park of Chemical Industries, Industrial Estate, Shiraz, Iran

 Tel No: +98 7137744659

 Phone No: +98 9177106084

 Email: eortech.official@gmail.com

 Website: fet-co.com